

Message Text

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PAGE 01 STATE 067777 POSS DUPE
ORIGIN OES-07

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FM SECSTATE WASHDC
TO AMEMBASSY BRUSSELS

UNCLAS STATE 067777

E.O. 11652: N/A

TAGS: TPHY, BE, BU

SUBJECT: BULGARIAN PHYSICIST MARINOV'S BOOK ON
RELATIVITY

REF: BRUSSELS A-008

1. DEPTOFF (OES) REPORTS EPPUR SI MUOVE BY STEFAN
MARINOV TRANSMITTED WITH REFAIR IS COMPETENT REFORMULATION
OF BASIS OF THEORY OF RELATIVITY. EARLY BASIS DEVELOPED
IN TERMS OF EXPERIMENTAL INTERPRETATION AND POSTULATES CAN
NOW BE GIVEN LOGICAL CONSISTENCY. IN TRYING TO BUILD A
NEW LOGICAL FRAMEWORK, MARINOV DRAWS ON HIS OWN WORK

OF THE LAST NINE YEARS PUBLISHED IN REFEREED INTERNATIONAL
JOURNALS OF HIGH STANDARDS. FOREWORD TO BOOK WOULD NOT
HAVE BEEN WRITTEN BY A.D. SAKHAROV UNLESS MARINOV HAD

STATUS IN FIELD, DESPITE APPARENT CLOSE FRIENDSHIP OF TWO.

2. NEVERTHELESS, BOOK MAY BE OF PRIMARILY PEDAGOGICAL
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VALUE, OFFERING AS IT DOES A SLIGHTLY DIFFERENT WAY OF
STARTING OUT TO FORMULATE A RELATIVISTIC THEORY RATHER
THAN RADICAL DEPARTURE. CHOICE OF POSTULATES (SUCH AS

CONSTANCY OF THE VELOCITY OF LIGHT OR CONTRACTION OF
FAST-MOVING OBJECTS) AND INTERPRETATION OF EXPERIMENTS
(IS THE ABSENCE OF AN ETHER EQUIVALENT TO BEHAVIOR OF

CERTAIN TYPES OF MOVING CLOCKS?) STILL ALLOW BONA FIDE BUT DIFFERENT APPROACHES TOWARD UNDERSTANDING NATURE. TITLE HARKING BACK TO GALILEO'S REFUTATION OF GEOCENTRIC THEORY EXAGGERATES THEORETICAL HERESY COMMITTED.

3. MARINOV REVIEWS AND SUGGESTS A NUMBER OF EXPERIMENTS RELATING TO RELATIVITY. THOSE COMBINING ELECTRICAL AND MECHANICAL PHENOMENA DESERVE TO BE PERFORMED AND REPEATED, FOR AS HE CORRECTLY POINTS OUT, MOST EXPERIMENTS HAVE BEEN EITHER OF ONE KIND OR THE OTHER UP TO NOW. THIS EXPERIMENTAL SECTION MOST VALUABLE IN BOOK.

4. FREQUENT DENIAL OF RELATIVITY BY MARINOV SHOULD NOT BE INTERPRETED AS REFUSAL TO RECOGNIZE RELATIVISTIC PHENOMENA BUT ONLY AS A CRITICAL EVALUATION OF ITS PRESENT THEORETICAL BASE. VANCE

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